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NOTICE OF ALLOWANCE AND FEE(S) DUE

28211

7590

04/21/2004

FREDERICK W. GIBB, III MCGINN & GIBB, PLLC 2568-A RIVA ROAD SUITE 304 ANNAPOLIS, MD 21401 EXAMINER
TON, MY TRANG

ART UNIT

PAPER NUMBER

2816

DATE MAILED: 04/21/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/604,175	06/30/2003	Jason Chung	BUR920020112US1	1174

TITLE OF INVENTION: DYNAMIC DRIVER BOOST CIRCUITS

APPLN. TYPE SMALL ENTITY		ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	07/21/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applicati ns filed on r after Dec. 12, 1980 may require payment f maintenance fees. It is patentee's responsibility t ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), t: Mail

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or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

maintenance fee notification CURRENT CORRESPONDEN	ONS. ICE ADDRESS (Note: Legibly mark-up	with any corrections or use	e Block 1)	Note: A certificate of	f mailing can only be used for	or domestic mailings of the	
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28211	7590 04/21/2004			have its own certificat	te of mailing or transmission.	ait of formal drawing, must	
FREDERICK W	. GIBB, III			Се	rtificate of Mailing or Trans	smission	
MCGINN & GIB	•			I hereby certify that the	his Fee(s) Transmittal is being	g deposited with the United	
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SUITE 304				transmitted to the USI	PTO, on the date indicated bel	ow.	
ANNAPOLIS, M	D 21401					(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	FIF	RST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/604,175	06/30/2003		Jason Chung		BUR920020112US1	1174	
TITLE OF INVENTION: I	DYNAMIC DRIVER BOOST	CIRCUITS					
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nonprovisional	NO	\$1330		\$300	\$1630	07/21/2004	
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CFR 1.363).	ce address or indication of "Fe	ee Address" (37		the patent front page, 3 registered patent a			
☐ Change of correspond Address form PTO/SB/	dence address (or Change of C	Correspondence	agents OR, alterna	atively, (2) the name member a registered	of a single		
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PTO/SB/47; Rev 03-02 Number is required.	tion (or "Fee Address" Indicat or more recent) attached. Use	of a Customer	attorneys or agent will be printed.	s. If no name is liste	d, no name 3		
3. ASSIGNEE NAME AN	D RESIDENCE DATA TO B	E PRINTED ON TH	E PATENT (print o	r type)		****	
PLEASE NOTE: Unles	s an assignee is identified bel	ow, no assignee data	will appear on the	patent. Inclusion of a	ssignee data is only appropria	ate when an assignment has	
been previously submitt	ted to the USPTO or is being s	submitted under sepai	rate cover. Complet	ion of this form is NO	T a substitute for filing an ass	ignment.	
(A) NAME OF ASSIG	NEC	1 (a)	RESIDENCE: (CIT	Y and STATE OR CO	ONIKI)		
Please check the appropriate	te assignee category or categor	ries (will not be print	ed on the patent);	individual 🗖	corporation or other private gr	oup entity	
4a. The following fee(s) are		***	Payment of Fee(s):	~			
☐ Issue Fee			A check in the amo	ount of the fee(s) is en	closed.		
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Director for Patents is requ	ested to apply the Issue Fee ar	nd Publication Fee (if	f any) or to re-apply	any previously paid i	ssue fee to the application ide	ntified above.	
(Authorized Signature)		(Date)				·	
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This collection of inform	nation is required by 37 CFR	1.311. The informat	tion is required to				
application. Confidentiali	t by the public which is to fity is governed by 35 U.S.C. 1:	22 and 37 CFR 1.14.	This collection is				
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FREDERICK	•			TON, MY	TRANG
MCGINN & GI 2568-A RIVA	-			ART UNIT	PAPER NUMBER
SUITE 304				2816	
ANNAPOLIS, MD 21401			DATE MAILED: 04/21/2004	‡	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)
	10/604,175	CHUNG ET AL.
Notice of Allowability	Examiner	Art Unit
	My-Trang N. Ton	2816
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>Tel. Int. 04/15/04.</u>		
2. The allowed claim(s) is/are 1-38.		
3. The drawings filed on are accepted by the Examine	۲.	
4. ☐ Acknowledgment is made of a claim for foreign priority unall All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: ☐ Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ☐ (b) ☐ including changes required by the attached Examiner' Paper No./Mail Date 04/15/04. Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in total company the deponsable of the deponsab	e been received. e been received in Application No cuments have been received in this of this communication to file a reply MENT of this application. nitted. Note the attached EXAMINER es reason(s) why the oath or declarate st be submitted. son's Patent Drawing Review (PTO s Amendment / Comment or in the Comment or in the Comment of the drawing the header according to 37 CFR 1.121(esit of BIOLOGICAL MATERIAL researces.	national stage application from the complying with the requirements 'S AMENDMENT or NOTICE OF ation is deficient. 948) attached Office action of the back) of d). must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Summary Paper No./Mail Da 7. Examiner's Amendr 8. Examiner's Statemen	te <u>04/15/04</u> . ment/Comment ent of Reasons for Allowance

Application/Control Number: 10/604,175

Art Unit: 2816

IN THE DRAWINGS

The drawings in this application are objected to as informal. Formal drawings are required.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Att. Gibb, III on April 15, 2004.

The application has been amended as follows:

In the claims

In claim 6, line 1, before "transistor", insert – pull-down --.

In claim 7, line 1, before "transistor", insert – pull-down --.

In claim 24, after line 2, insert a paragraph: "a driving transistor having a gate connected to an output of said logical enable device;".

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The present invention is drawn to a driver circuit utilizing a logical enable device, a driving transistor, a pull-down booster circuit and a pull-up booster circuit, wherein the pull-down booster circuit having a logical NAND device and a pull-down transistor, the pull-up booster circuit having a logical NOR device and a pull-up transistor recited in

Application/Control Number: 10/604,175

Art Unit: 2816

claims 1-38. None of the prior art disclosed or suggested to show the particular structure and/or the particular operation recited in these claims namely: the combination of "the logical enable device", "the driving transistor", "the pull-down booster circuit" and "the pull-up booster circuit" recited in claim 1; "a logical NAND device ... wherein said first input is connected to an input signal supplied to said logical enable device" and "wherein second input of said logical NAND device is connected to said gate of said driving transistor, such that are at the same logic level" in combination with "the logical enable device", "the driving transistor", and "the pull-down transistor" as recited in claim 14; "a logical NOR device ... wherein said first input is connected to an input signal supplied to said logical enable device", and "wherein said second input of said logical NOR device is connected to said gate of said driving transistor ... are at the same logic level" in combination with "the logical enable device", "the driving transistor", and "the pull-up transistor" as recited in claim 19; the combination of "the logical enable device", "the driving transistor", the details of "the pull-down booster circuit" and the details of "the pull-up booster circuit" as recited in claim 24; the combination of "a logical NAND device ... wherein said first input is connected to an input signal supplied to said logical enable device", "a transistor" and "wherein said second input of said logical NAND device is connected to said output of said logical enable device ... are at the same logic level" as recited in claim 29; the combination of "a logic NOR device ... wherein said first input is connected to an input signal supplied to said logical enable device", "a transistor" and "wherein said second input of said logical NOR device is

connected to said output of said logical enable device ... are at the same logic level" as recited in claim 34.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to My-Trang N. Ton whose telephone number is 571-272-1754. The examiner can normally be reached on 7:00 a.m - 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MY-TRANG NUTON PRIMARY EXAMINER

April 15, 2004